

Dicipline:	CIVIL	Semester: 3 rd .	Name of the Teaching Faculty: Pratiksha Bhatnagar	
Subject: Building material & Const. Technology	No of Days/Week Class Allotted: 5	Semester From date: 15.09.22 To date _____	No. of Weeks:	
WEEK	Class Day	Theory Topics		
1 st 15.09.22 to 17.09.22	1st	Stone - classification of rock, uses of stone. Natural bed of stone, Uses of stone.		
	2nd	Qualities of good building stone, Dressing and characteristics.		
	3rd	Dressing of stone, characteristics of different types of stone.		
	4th			
	5th			
2 nd 19.09.22 to 24.09.22	1st	Brick - Brick earth - its composition.		
	2nd	Brick making - preparation of brick earth		
	3rd	Moulding, Drying, Burning in kiln.		
	4th	Classification of Bricks, size of bricks.		
	5th	Qualities of good building bricks.		
3 rd 26.09.22 to 1.10.22	1st	Cement - Types, properties, manufacturing		
	2nd	Importance and application of blended cement with fly ash.		
	3rd	Mortar - Definition & types.		
	4th	Sources and classification of sand, Bulking of sand.		
	5th	Use of gravel, morcum and fly ash as diff. building material.		

WEEK	Class Day	Theory Topics
4th 11.10.22 to 15.10.22	1st	Concrete - Definition and composition, water cement ratio - workability.
	2nd	Mechanical properties & grading of aggregate, mixing, placing, compacting & curing.
	3rd	Timber - classification & etc. of timber.
	4th	Seasoning of timber - Importance.
	5th	Characteristics of good timber.
5th 17.10.22 to 22.10.22	1st	Clay products and refractory material. Def ⁿ , classification.
	2nd	Properties & uses of refractory material - tiles.
	3rd	Terracotta, porcelain glazing.
	4th	Iron & steel - Uses of cast iron, wrought iron, mild steel & tool steel.
	5th	Surface protective materials - composition of paints.
6th 24.10.22 to 29.10.22	1st	enamels, varnishes.
	2nd	Types and uses - paints, Enamels,
	3rd	Varnishes, Distempers
	4th	Emulsion, French polish.
	5th	Wax polish.

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WEEK	Class Day	Theory Topics
7th 21.10.22 to 5.11.22	1st	Construction Technology - Introduction
	2nd	Buildings and classification of buildings on occupancy.
	3rd	Different components of building
	4th	Site investigation objectives, site reconnaissance and exploration.
	5th	Class Test.
8th 7.11.22 to 12.11.22	1st	Foundations - concept of foundation and its purpose
	2nd	Types of foundation - shallow foundation
	3rd	Deep foundation.
	4th	Shallow foundation - constructional details of: spread foundation of walls,
	5th	Thumb rules for depth and width of foundation and thickness of concrete below
9th 14.11.22 to 19.11.22	1st	Deep foundations - Pile foundation - their suitability, classification of piles
	2nd	Wall - Purpose of wall as per materials
	3rd	Classification of walls - load bearing, non load bearing wall retaining walls.
	4th	Reinforced concrete, precast hollow and solid concrete block.
	5th	Partition walls - Suitability and uses.

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WEEK	Class Day	Theory Topics		
10th 21.11.22 to 26.11.22	1st	Brick masonry - Definition and different terms, Bond - meaning and necessity.		
	2nd	English bond for long 1-1/2 brick thick walls, T.X and right angle corner		
	3rd	Stone masonry, Glossary of terms - string course, rebated course.		
	4th	block in-courses, grouting, moulding, templates, throating, parapet, coping.		
	5th	Door - Glossary of terms used in doors and windows		
11th 28.11.22 to 5.12.22	1st	Different types of door.		
	2nd	Windows - Different types of windows.		
	3rd	Purpose of use of arches and lintel.		
	4th	Floor - Glossary of term, Types of floor finishes - cast-in-situ.		
	5th	Concrete flooring, terrazzo tile flooring, cast in situ. terrazzo flooring		
12th 07.12.22 to 13.12.22	1st	Timber flooring,		
	2nd	ROOF Glossary of terms - Types of roofs a concept and function		
	3rd	Stair - Glossary of terms - Stair case winder, landing, stringer, newel.		
	4th	Baluster, rise thread, width of case, hand rail, nosing,		
	5th	Various types of stairs call - Straight flight, dog legged open well,		

WEEK	Class Day	Theory Topics
13 th 14.12.22 to 19.12.22	1st	Quarter turn, half turn, bifurcated stairs, spiral stairs, cantilever stair.
	2nd	Protective Decorative finishes - Plastering - Purpose - Types of plastering
	3rd	Types of plaster finishes - half finish, rough, rough, smooth cast, sand faced.
	4th	Preparation of mortars used for different plaster, Preparation of mortar, technique
	5th	Painting - Purpose - Types of painting
14 th 21.12.22 to 26.12.22	1st	Painting - objectives - method of painting new and old surface,
	2nd	White washing - Colour washing, Distemper - internal and external
	3rd	Damp and Termite proofing - Materials and method.
	4th	Concept of Green building -
	5th	Introduction of Energy Management and Energy Audit of Buildings
	1st	Aims of energy management of buildings
	2nd	Types of energy audit, Response.
	3rd	Energy surveying and audit report
	4th	Doubt clearing class
	5th	Test -